

WHAT IS CLAIMED IS:

1. A dielectric filter comprising:

5 a dielectric block having a first end face, a second end face disposed in opposite side to said first end face and lateral faces each being disposed between edges of said first and second end faces;

10 a plurality of resonators each having a through hole which lies between said first and second end faces of said dielectric block and is coated with an inner conductor, and an outer conductor coated on said second end face and said lateral faces of said dielectric block; and

15 an input/output electrode which is insulated from said outer conductor and capacitively coupled to one of said resonators at input or output stage on said first end face, and extends to a mounting surface which is one of said lateral faces of said dielectric block,

wherein said input/output electrode includes a conductor pattern formed on said first end face and having an inductance component which self-resonates at a predetermined frequency.

20 2. The dielectric filter according to claim 1, wherein said input/output electrode has a portion connected to said conductor pattern and capacitively coupled to one of said resonators at input or output stage.

25 3. The dielectric filter according to claim 1, wherein said conductor pattern is made of a conductive line having a shape with sharp turns.

4. The dielectric filter according to claim 3, wherein an end portion of said conductive line is capacitively coupled to one of

said resonators at input or output stage.

5. The dielectric filter according to claim 1, wherein a trap resonator is formed in said dielectric block and said input/output electrode is capacitively coupled to said trap resonator.

5 6. The dielectric filter according to claim 5, wherein said input/output electrode is disposed between said trap resonator and one of said resonators at input or output stage.

10 7. The dielectric filter according to claim 5, wherein said conductor pattern is made of a conductive line having a shape with sharp turns.

8. The dielectric filter according to claim 7, wherein a portion of said conductive line is capacitively coupled to said trap resonator.